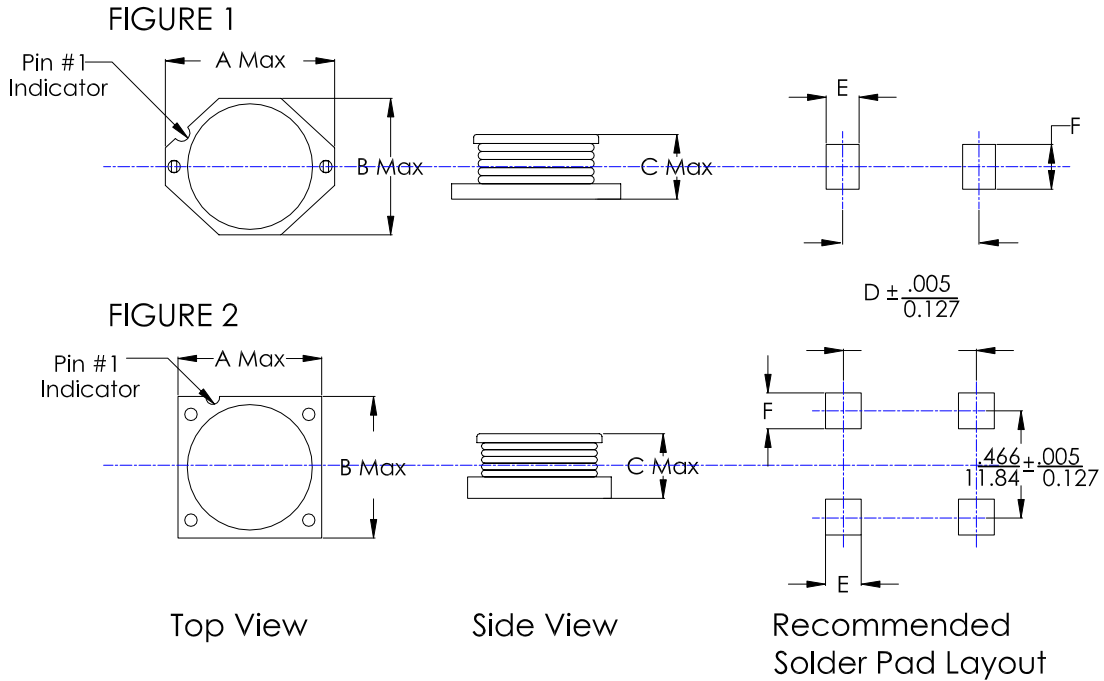


# TRIAD

## AX97 Series

## SMD POWER INDUCTORS

OUTLINE DIMENSIONS/RECOMMENDED PCB LAYOUT(inch/mm)



| Part No. | A                     | B                     | C                    | D                     | E                    | F                    | Figure |
|----------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|--------|
| AX97-10  | $\frac{0.295}{7.30}$  | $\frac{0.188}{4.78}$  | $\frac{0.127}{3.23}$ | $\frac{0.218}{5.54}$  | $\frac{0.059}{1.50}$ | $\frac{0.100}{2.54}$ | 1      |
| AX97-20  | $\frac{0.530}{13.46}$ | $\frac{0.370}{9.40}$  | $\frac{0.137}{3.50}$ | $\frac{0.404}{10.26}$ | $\frac{0.120}{3.05}$ | $\frac{0.135}{3.43}$ | 1      |
| AX97-30  | $\frac{0.530}{13.46}$ | $\frac{0.370}{9.40}$  | $\frac{0.232}{5.90}$ | $\frac{0.404}{10.26}$ | $\frac{0.120}{3.05}$ | $\frac{0.135}{3.43}$ | 1      |
| AX97-40  | $\frac{0.634}{16.10}$ | $\frac{0.622}{15.80}$ | $\frac{0.284}{7.21}$ | $\frac{0.520}{13.21}$ | $\frac{0.157}{4.00}$ | $\frac{0.157}{4.00}$ | 2      |
| AX97-50  | $\frac{0.746}{18.95}$ | $\frac{0.600}{15.24}$ | $\frac{0.284}{7.21}$ | $\frac{0.595}{15.11}$ | $\frac{0.145}{3.68}$ | $\frac{0.135}{3.43}$ | 1      |



10XXX



20XXX



30XXX



40XXX



50XXX

Design and specification are subject to change without notice.

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## SPECIFICATIONS

| Part Number | Inductance<br>( $\mu\text{H} \pm 20\%$ )<br>(Note 1) | DC Resistance<br>@25°C<br>( $\Omega_{\text{max}}$ )<br>(Note 3) | Rated<br>Current<br>(Amp)<br>(Note 2) | Figure | Part Number | Inductance<br>( $\mu\text{H} \pm 20\%$ )<br>(Note 1) | DC Resistance<br>@25°C<br>( $\Omega_{\text{max}}$ )<br>(Note 3) | Rated<br>Current<br>(Amp)<br>(Note 2) | Figure |
|-------------|--|---|---------------------------------------|--------|-------------|--|---|---------------------------------------|--------|
| AX97-101R0  | 1.0  | 0.03  | 2.90                                  | 1      | AX97-30101  | 100  | 0.30  | 1.50                                  | 1      |
| AX97-101R5  | 1.5  | 0.05  | 2.80                                  | 1      | AX97-30151  | 150  | 0.44  | 1.20                                  | 1      |
| AX97-102R2  | 2.2  | 0.06  | 2.40                                  | 1      | AX97-30221  | 220  | 0.64  | 1.00                                  | 1      |
| AX97103R3   | 3.3  | 0.09  | 2.00                                  | 1      | AX97-30331  | 330  | 1.00  | 0.80                                  | 1      |
| AX97104R7   | 4.7  | 0.12  | 1.50                                  | 1      | AX97-30471  | 470  | 1.50  | 0.50                                  | 1      |
| AX97-106R8  | 6.8  | 0.17  | 1.30                                  | 1      | AX97-30681  | 680  | 2.20  | 0.40                                  | 1      |
| AX97-10100  | 10   | 0.22  | 1.00                                  | 1      | AX97-30102  | 1000   | 3.15  | 0.30                                  | 1      |
| AX97-10150  | 15   | 0.30  | 0.80                                  | 1      | AX97-403R3  | 3.3  | 0.01  | 9.80                                  | 2      |
| AX97-10220  | 22   | 0.43  | 0.70                                  | 1      | AX97-404R7  | 4.7  | 0.01  | 9.30                                  | 2      |
| AX97-10330  | 33   | 0.69  | 0.57                                  | 1      | AX97-406R8  | 6.8  | 0.02  | 7.70                                  | 2      |
| AX97-10470  | 47   | 0.92  | 0.46                                  | 1      | AX97-408R2  | 8.2  | 0.02  | 7.00                                  | 2      |
| AX97-10680  | 68   | 1.39  | 0.37                                  | 1      | AX97-40100  | 10   | 0.02  | 6.50                                  | 2      |
| AX97-10101  | 100  | 1.98  | 0.28                                  | 1      | AX97-40150  | 15   | 0.03  | 5.30                                  | 2      |
| AX97-10151  | 150  | 3.08  | 0.22                                  | 1      | AX97-40220  | 22   | 0.04  | 4.40                                  | 2      |
| 1X97-10221  | 220  | 4.47  | 0.18                                  | 1      | AX97-40330  | 33   | 0.06  | 3.50                                  | 2      |
| AX97-10331  | 330  | 6.90  | 0.15                                  | 1      | AX97-40470  | 47   | 0.07  | 3.00                                  | 2      |
| AX97-10471  | 470  | 11.55   | 0.12                                  | 1      | AX97-40680  | 68   | 0.11  | 2.50                                  | 2      |
| AX97-20100  | 10   | 0.070   | 2.00                                  | 1      | AX97-40820  | 82   | 0.12  | 2.20                                  | 2      |
| AX97-20150  | 15   | 0.090   | 1.50                                  | 1      | AX97-40101  | 100  | 0.15  | 2.00                                  | 2      |
| AX97-20220  | 22   | 0.150   | 1.30                                  | 1      | AX97-40151  | 150  | 0.22  | 1.70                                  | 2      |
| AX97-20330  | 33   | 0.210   | 1.10                                  | 1      | AX97-40221  | 220  | 0.33  | 1.30                                  | 2      |
| AX97-20470  | 47   | 0.310   | 0.80                                  | 1      | AX97-40331  | 330  | 0.45  | 1.10                                  | 2      |
| AX97-20680  | 68   | 0.420   | 0.70                                  | 1      | AX97-40471  | 470  | 0.70  | 0.93                                  | 2      |
| AX97-20101  | 100  | 0.580   | 0.60                                  | 1      | AX97-40681  | 680  | 1.00  | 0.78                                  | 2      |
| AX97-20151  | 150  | 0.890   | 0.50                                  | 1      | AX97-40102  | 1000   | 1.45  | 0.65                                  | 2      |
| AX97-20221  | 220  | 1.300   | 0.40                                  | 1      | AX97-50R78  | 0.78   | 0.003   | 16.00                                 | 1      |
| AX97-20331  | 330  | 2.000   | 0.30                                  | 1      | AX97-501R3  | 1.3  | 0.0043  | 14.00                                 | 1      |
| AX98-20471  | 470  | 2.500   | 0.20                                  | 1      | AX97-502R0  | 2.0  | 0.005   | 12.00                                 | 1      |
| AX97-20681  | 680  | 3.500   | 0.10                                  | 1      | AX97-502R6  | 2.6  | 0.006   | 10.00                                 | 1      |
| AX97-20102  | 1000   | 6.000   | 0.05                                  | 1      | AX97-503R3  | 3.3  | 0.008   | 9.80                                  | 1      |
| AX97-301R0  | 1.0  | 0.01  | 8.50                                  | 1      | AX97-505R6  | 5.6  | 0.010   | 7.50                                  | 1      |
| AX97-301R5  | 1.5  | 0.01  | 7.90                                  | 1      | AX97-50100  | 10   | 0.023   | 6.00                                  | 1      |
| AX97-302R2  | 2.2  | 0.02  | 7.40                                  | 1      | AX97-50150  | 15   | 0.035   | 4.50                                  | 1      |
| AX97-303R3  | 3.3  | 0.02  | 6.60                                  | 1      | AX97-50220  | 22   | 0.045   | 4.00                                  | 1      |
| AX97-304R7  | 4.7  | 0.02  | 6.00                                  | 1      | AX97-50330  | 33   | 0.075   | 3.00                                  | 1      |
| AX98-306R8  | 6.8  | 0.03  | 5.20                                  | 1      | AX97-50470  | 47   | 0.096   | 2.60                                  | 1      |
| AX97-308R2  | 8.2  | 0.03  | 5.00                                  | 1      | AX97-50680  | 68   | 0.140   | 2.30                                  | 1      |
| AX97-30100  | 10.0   | 0.04  | 4.60                                  | 1      | AX97-50101  | 100  | 0.190   | 1.70                                  | 1      |
| AX97-30150  | 15.0   | 0.05  | 3.70                                  | 1      | AX97-50151  | 150  | 0.290   | 1.50                                  | 1      |
| AX97-30220  | 22.0   | 0.07  | 3.10                                  | 1      | AX97-50221  | 220  | 0.410   | 1.20                                  | 1      |
| AX97-30330  | 33.0   | 0.11  | 2.50                                  | 1      | AX97-50331  | 330  | 0.540   | 1.00                                  | 1      |
| AX97-30470  | 47.0   | 0.16  | 2.00                                  | 1      | AX97-50471  | 470  | 0.800   | 0.83                                  | 1      |
| AX97-30680  | 68.0   | 0.20  | 1.80                                  | 1      | AX97-50681  | 680  | 1.150   | 0.72                                  | 1      |
| AX97-30820  | 82.0   | 0.24  | 1.58                                  | 1      | AX97-50102  | 1000   | 1.800   | 0.56                                  | 1      |

Note:1.Inductance measured at 100.0KHz,0.1Vrms,without DC current.

2.Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^{\circ}\text{C}$ ,whichever is lower.

3.For AX97-40 Serie, resistance measured with both windings conducted in parallel.

**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version

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